

Discussion

- Criteria
- General basics of how stormwater ponds control discharge
- How the project fits into the overall basin and FEMA floodplain
- The project site in relation to Eastwood development

Orange County Code

Sec. 34-226. - Required features.



A stormwater management system shall be designed and installed for the development that will contain features to provide for:

- (1) *Pollution abatement.* Pollution abatement will be accomplished by retention, or detention with filtration, of one-half ($\frac{1}{2}$) inch of runoff from the developed site or the runoff generated from the first one (1) inch of rainfall on the developed site, whichever is greater. The depth of runoff generated from the first inch of rainfall shall be estimated by multiplying the Rational Method Runoff Coefficient (C) for the developed site by one (1) inch of rainfall.
- (2) *Recharge where possible.* Recharge in designated areas where the soils are compatible (Hydrologic Soil Group Type "A" soils as indicated on the soils survey map for the county prepared by the U.S.D.A. Soil Conservation Service) will be accomplished by providing for retention of the total runoff generated by a 25-year frequency, 24-hour duration storm event from the developed site. Where a positive outfall is not available, the site shall be designed to retain 100-year frequency/24-hour duration storm on-site.
- (3) *Protection from flooding.* Protection from flooding will be accomplished by a design which will provide that:
 - a. The postdevelopment peak rate of discharge permitted from the site will not exceed the predevelopment peak rate of discharge from the site during a 25-year frequency/24-hour duration storm event.
 - b. All residential structures are to be floodfree and all commercial and industrial structures are to be either floodfree or floodproofed (see [section 34-228](#)).

(Ord. No. 91-29, § 2(Exh. A), 12-10-91; Ord. No. 92-42, § 15, 12-15-92; Ord. No. 94-4, § 1(Exh. A), 2-8-94; Ord. No. 2000-14, § 1, 6-27-00)

SJRWMD Applicant's Handbook

3.2.1 Water Quantity *Revised 6/1/18*

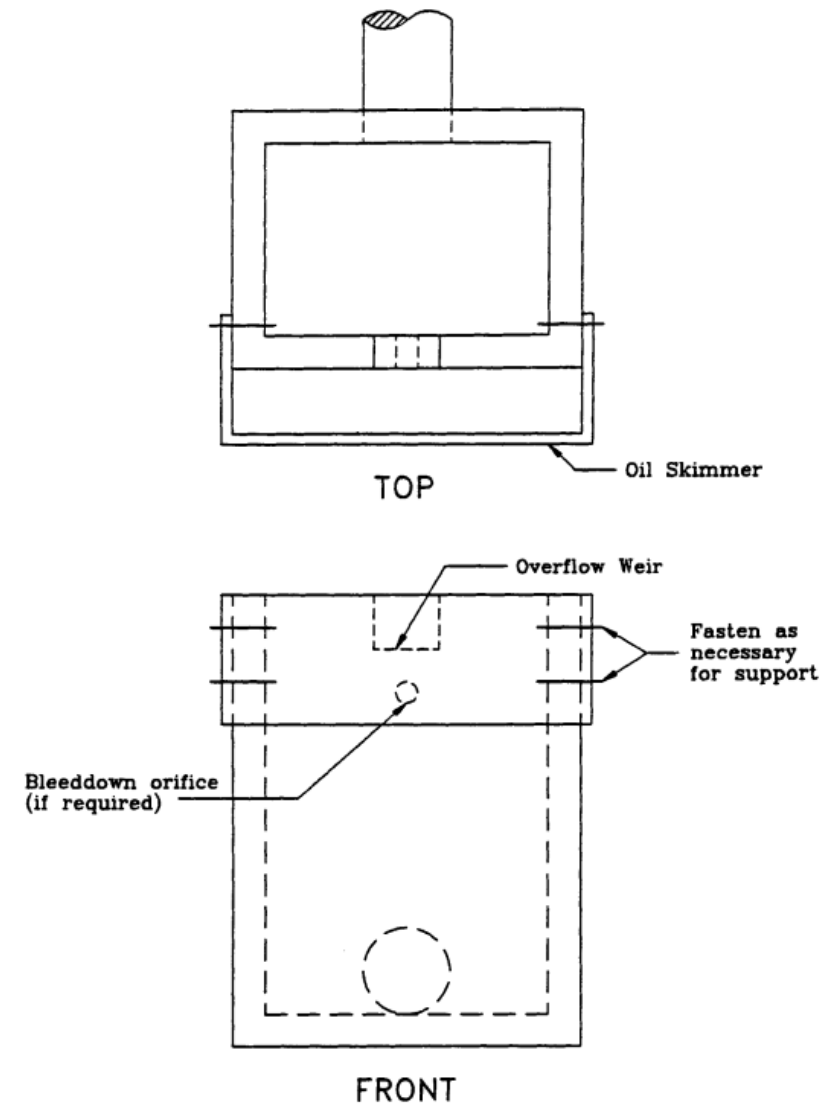
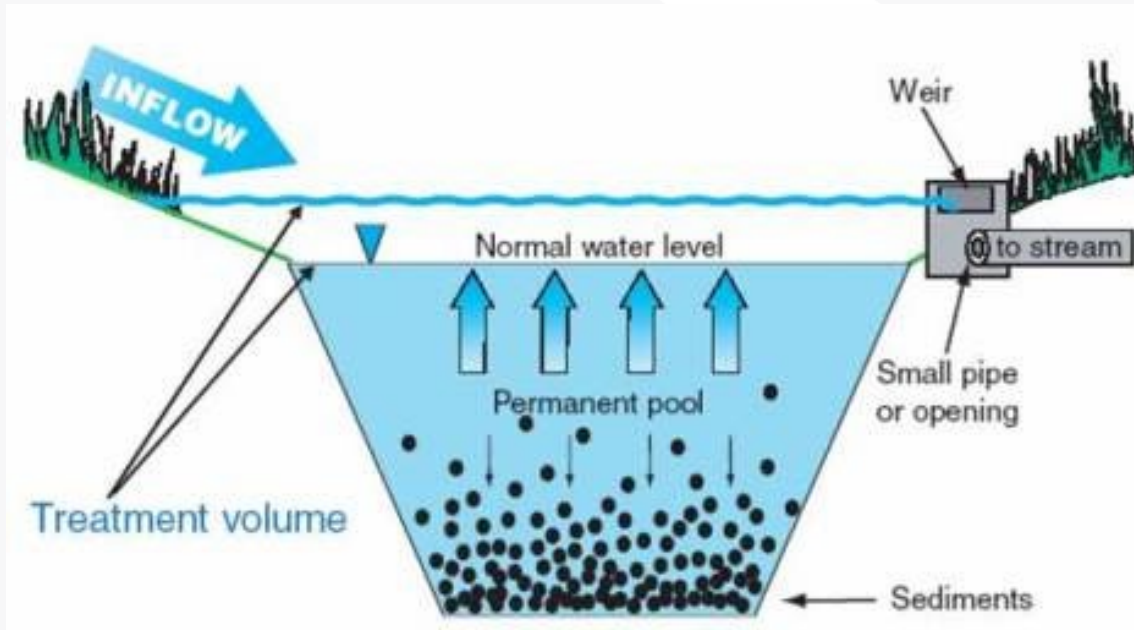
- (a) The post-development peak discharge rate must not exceed the pre-development peak rate of discharge for the mean annual 24-hour storm for systems serving both of the following:
 - (1) New construction area greater than 50% impervious (excluding waterbodies)
 - (2) Projects for the construction of new developments that exceed the thresholds in paragraphs 62-330.020(2)(b) or (c), F.A.C.

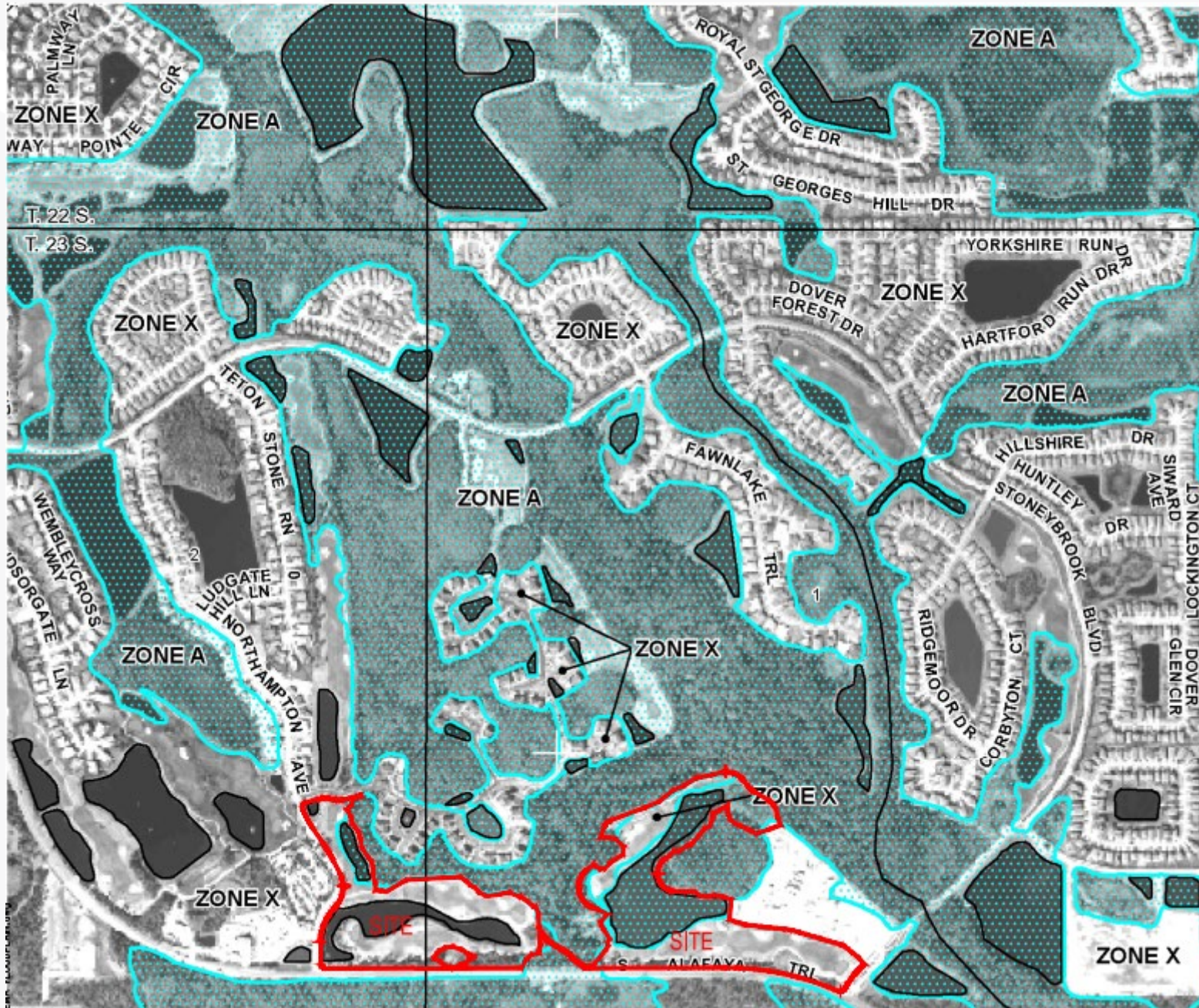
Florida Statute

40D-4.301 Conditions for Issuance of Permits.

(1) In order to obtain a general, individual, or conceptual permit under this chapter or Chapter 40D-40, F.A.C., an applicant must provide reasonable assurance that the construction, alteration, operation, maintenance, removal or abandonment of a surface water management system:

- (a) Will not cause adverse water quantity impacts to receiving waters and adjacent lands;
- (b) Will not cause adverse flooding to on-site or off-site property;
- (c) Will not cause adverse impacts to existing surface water storage and conveyance capabilities;
- (d) Will not adversely impact the value of functions provided to fish and wildlife, and listed species including aquatic and wetland dependent species, by wetlands, other surface waters and other water related resources of the District;
- (e) Will not adversely affect the quality of receiving waters such that the water quality standards set forth in Chapters 62-4, 62-302, 62-520, 62-522 and 62-550, F.A.C., including any antidegradation provisions of paragraphs 62-4.242(1)(a) and (b), subsections 62-4.242(2) and (3) and Rule 62-302.300, F.A.C., and any special standards for Outstanding Florida Waters and Outstanding National Resource Waters set forth in subsections 62-4.242(2) and (3), F.A.C., will be violated;
- (f) Will not cause adverse secondary impacts to the water resources;
- (g) Will not adversely impact the maintenance of surface or ground water levels or surface water flows established pursuant to Chapter 373.042, F.S.;





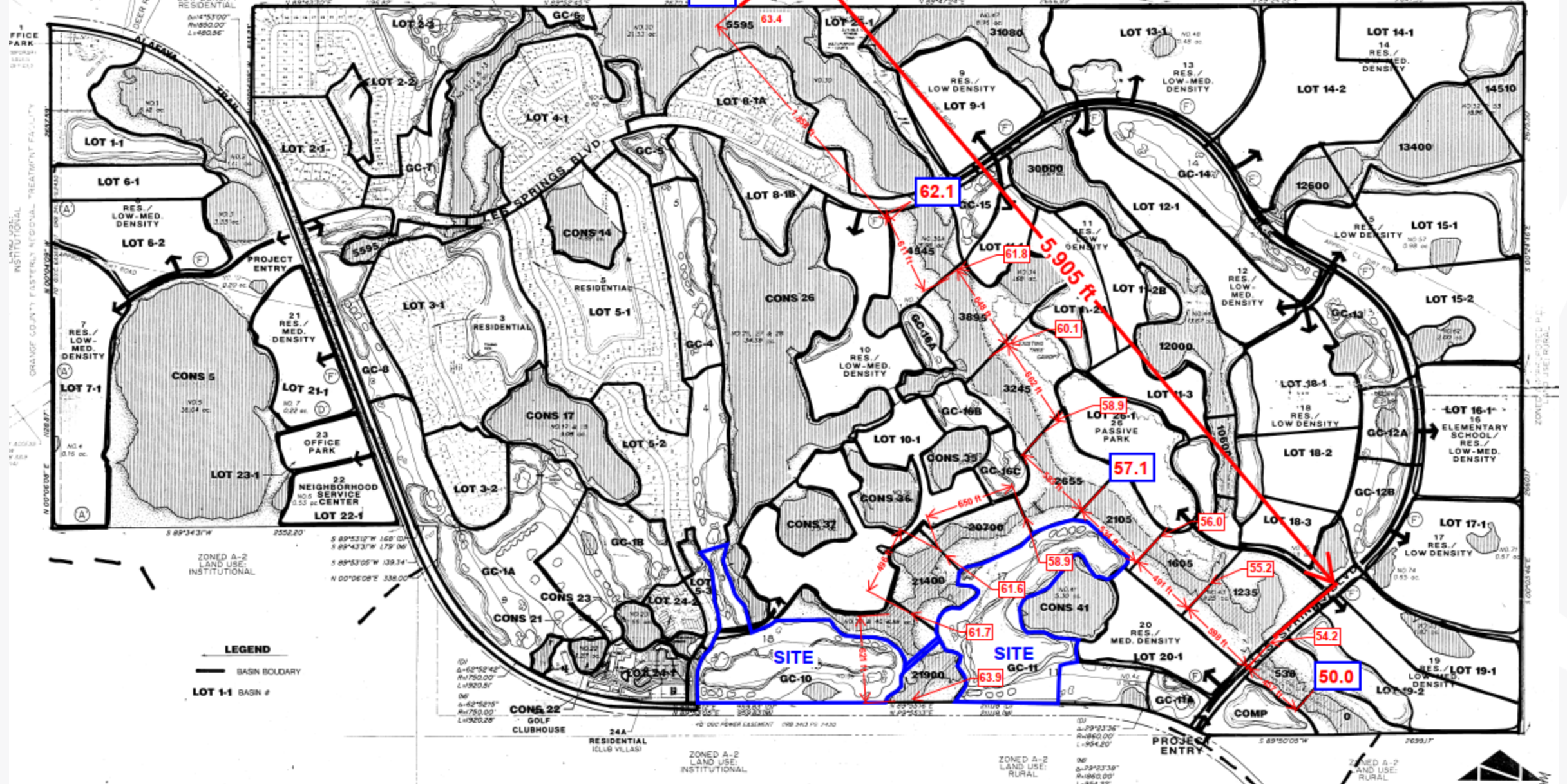


EASTWOOD ZONED P.D. LAND USE: COMMERCIAL
 6-67°32'15" R=750.00' L=2063.33'
 1-89°08'50"W 15.37' @
 1-89°23'07"W 14.89' @

EASTWOOD ZONED P.D. LAND USE: LOW DENSITY RESIDENTIAL
 6-4°53'00" R=1850.00' L=4903.56'

EASTWOOD ZONED P.D. LAND USE: PARKS AND RECREATION
 6-67°32'15" R=750.00' L=2063.33'

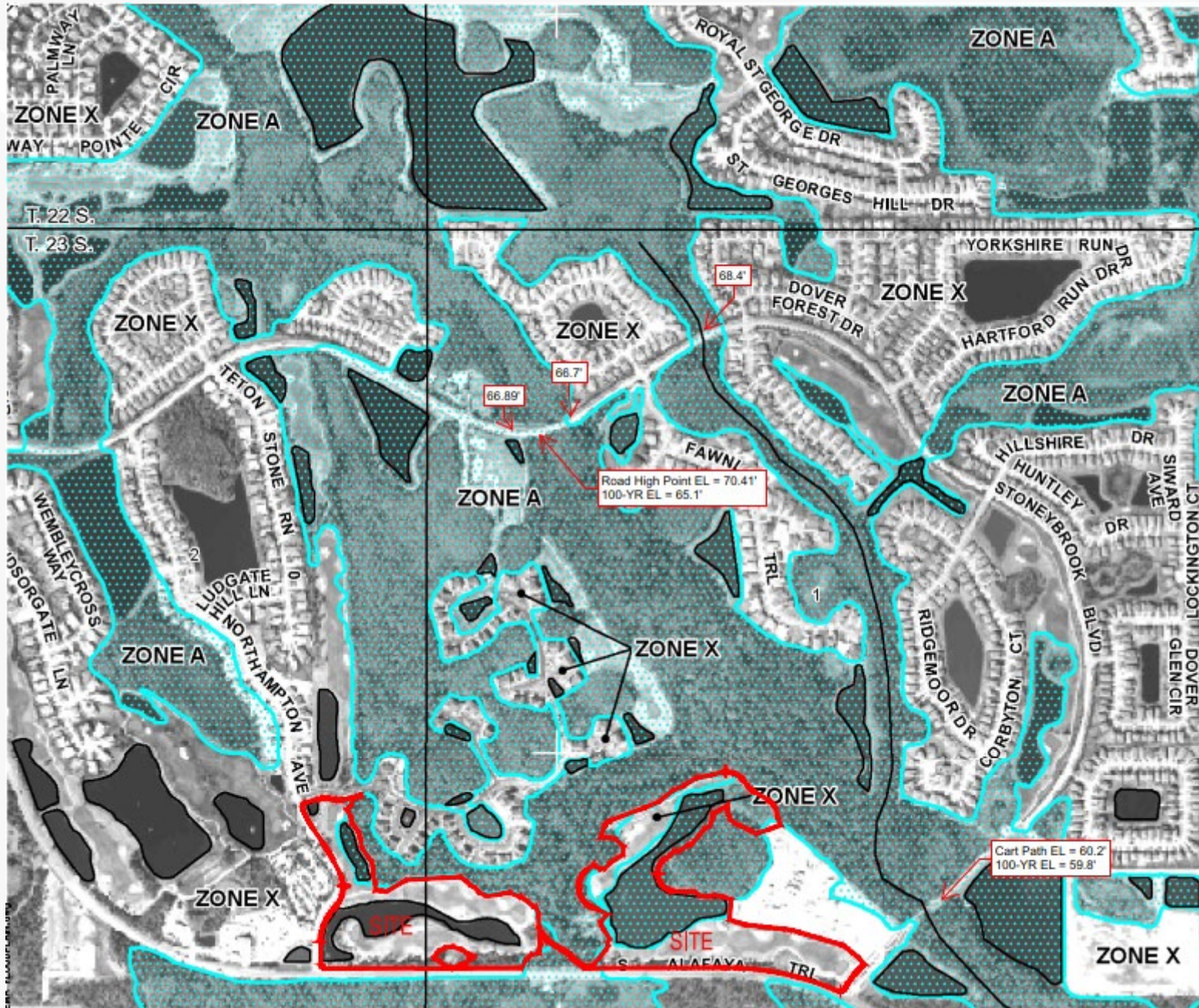
EASTWOOD ZONED P.D. LAND USE: LOW DENSITY RESIDENTIAL
 6-67°32'15" R=750.00' L=2063.33'



LEGEND
 — BASIN BOUNDARY
 LOT 1-1 BASIN #

CONCEPTUAL POST DEVELOPMENT DRAINAGE BASIN MAP
 REVISED 11-94





Thank You

The background features several large, overlapping, rounded geometric shapes in vibrant colors: orange, maroon, lime green, and teal. A light gray curved shape is also present on the left side, partially overlapping the white background.